

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2 005/020166

A. CLASSIFICATION OF SUBJECT MATTER

IntCl. H01L21/268 (2006. 01), H01L21/20 (2006. 01), H01L21/336 (2006. 01),
H01L29/786(2006. 01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IntCl. H01L21/268, H01L21/20, H01L21/336, H01L29/786

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996

Published unexamined utility model applications of Japan 1971-2006

Registered utility model specifications of Japan 1996-2006

Published registered utility model applications of Japan 1994-2006

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2003-287704 A (MITSUBISHI DENKI KABUSHIKI KAISHA) 2003.10.10, PAR. [0039] ,FIG. 6	1, 2, 4, 5, 7-10, 12, 13, 15, 16
Y	PAR. [0039] ,FIG. 6 (FAMILY : NONE)	3, 6, 11, 14
X	JP 2001-156017 A (SEMICONDUCTOR ENERGY LABORATORY CO., LTD.) 2001.06.08, PAR. [0044] ,FIGS. 4, 5 (FAMILY : NONE)	1-1 6
A	US 2004/0208206 A1 (TANAKA Koichiro) 2004.10.21, WHOLE DOCUMENT, FIG. 5 & JP 2001-156018 A	1-16

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
26.01.2006

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07.02.2006

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